MyWay: European Smart Mobility Resource Manager

D3.1.1 MyWay Platform Detailed Technical Design 1

Work Package	3
Deliverable Number	D3.1.1
Version	2.0
Status (F: final, D: draft)	F
Dissemination level	Restricted
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Project start date and duration	1 September 2013 - 29 February 2016
Submission date	31 July 2014
Resubmission date	28 January 2015

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EXECUTIVE SUMMARY

This document shows the technical design of the MyWay platform built on the outcomes of WP2. In particular starting from the conceptual architecture defined in D2.3 [MyWay D.2.3], considering requirements of D2.1 [MyWay D.2.1] and taking in account technologies and standards summarized in D2.2 [MyWay D.2.2] all the software components composing the MyWay platform and their interactions have been fully defined. Moreover each component has been described in details from a functional and technical point of view.

Due to the research nature of the MyWay project and in order to build a system that fully satisfy user requirements (collected at the begin of the project but also evolving during the project itself) the MyWay platform has been planned to be an incremental platform that will be released in two phases, 1st Phase (described in this document) and 2nd Phase (described in D3.1.2). Clearly, the final prototype coming from 2nd Phase will be an evolution, and not a replacement, of the initial prototype which will be detailed in this deliverable.

This document poses the technical design of the MyWay describing the overall system and the single components and is organized as described in the following:

- Overview of the whole system including the description of its architecture, the list of requirements and use cases addressed, and the MyWay platform main features and functionalities.

- Description of MyWay general strategies to address security, privacy and scalability issues.

- Development guidelines followed to transform the MyWay architecture into the MyWay platform implementation.

- Detailed description of MyWay software components in terms of diagrams, algorithms, peculiarities, etc.

- Expected evolution of the system. This document is focused on the 1st Phase of MyWay and while not all the expected functionalities will be implemented they are already considered into the design.

The design has been performed as collaborative task of all WP partners involved. The detailed description of the components, their algorithms and their detailed interfaces for communications, have been designed by all the partners involved in the implementation phase.